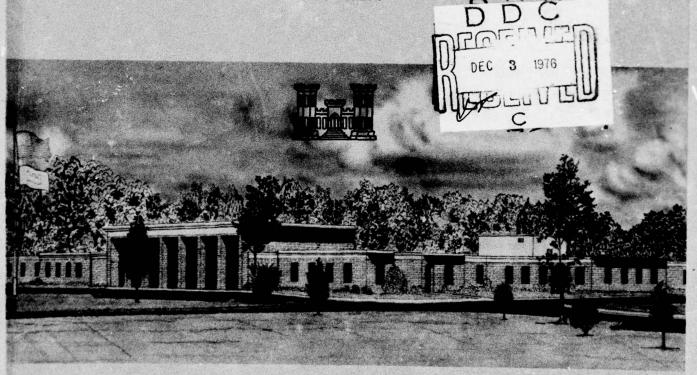


MISCELLANEOUS PAPER S-73-33

CONDITION SURVEY, GLASGOW AIR FORCE BASE, MONTANA

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R. D. Jackson



May 1973

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Conducted by U. S. Army Engineer Waterways Experiment Station
Soils and Pavements Laboratory
Vicksburg, Mississippi

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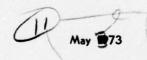
by

R. D./Jackson

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Foreword

The study reported herein was conducted under the general supervision of the Engineering Design Criteria Branch, Soils and Pavements Laboratory, of the U. S. Army Engineer Waterways Experiment Station (WES), Vicksburg, Mississippi. Personnel involved in the condition survey were Messrs. S. L. Webster, K. A. O'Connor, and S. R. Rowland, Jr., of the WES and Mr. H. H. Baker of the U. S. Army Engineer Division, New England (NED), Waltham, Massachusetts. The main portion of this report was prepared by Mr. R. D. Jackson under the general supervision of Messrs. J. P. Sale, R. G. Ahlvin, R. L. Hutchinson, and P. J. Vedros of the Soils and Pavements Laboratory. That portion of the study pertaining to frost action was carried out by the U. S. Army Cold Regions Research and Engineering Laboratory (CRREL), Hanover, New Hampshire, with the assistance of the Foundations and Materials Branch, NED. The section of the report concerning frost action was prepared by Mr. Baker and by Mr. G. D. Gilman of CRREL.

COL Ernest D. Peixotto, CE, was Director of the WES during the conduct of the study and preparation of the report. Mr. F. R. Brown was Technical Director.

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Conversion Factors, British to Metric Units of Measurement

British units of measurement used in this report can be converted to metric units as follows:

Multiply	Ву	To Obtain
inches	2.54	centimeters
feet	0.3048	meters
miles (U. S. statute)	1.609344	kilometers
square inches	6.4516	square centimeters
miles per hour	1.609344	kilometers per hour
pounds (mass)	0.45359237	kilograms
pounds (force) per square inch	0.6894757	newtons per square centimeter
Fahrenheit degrees	*	Celsius or Kelvin degrees

^{*} To obtain Celsius (C) temperature readings from Fahrenheit (F) readings, use the following formula: C = (5/9)(F - 32). To obtain Kelvin (K) readings, use: K = (5/9)(F - 32) + 273.15.

CONDITION SURVEY, GLASGOW AIR FORCE BASE, MONTANA

Authority

1. Authority for conducting condition surveys at selected airfields is contained in amendment to FY 1972 RDTE Funding Authorization (MFS-MC-5, 16 February 1972), subject: "Air Force Airfield Pavement Research Program," from the Office, Chief of Engineers, U. S. Army, Directorate of Military Construction, dated 18 February 1972.

Purpose and Scope

- 2. The purpose of this report is to present the results of a condition survey performed at Glasgow Air Force Base (GAFB), Montana, during 17-20 April 1972. The following three major areas of interest were considered in this condition survey:
 - The structural condition of the primary airfield pavements.
 - The condition of pavement repairs and the types of maintenance materials that have been used at this airfield.
 - Any detrimental effects of frost to the pavement facilities.
- 3. This report is limited to a presentation of visual observations of the pavement conditions, discussion of these observations, and pertinent remarks with regard to the performance of the pavements. No physical tests of the pavements, foundations, or patching materials were performed during this survey.

Pertinent Background Data

General description of airfield

4. GAFB is located in Valley County, Montana, approximately 18 miles* north of Glasgow, Montana. A vicinity map is shown in plates 1 and 2.

^{*} A table of factors for converting British units of measurement to metric units is presented on page vii.

5. In April 1972, the airfield facilities consisted of a NW-SE (10-28) runway, a parallel taxiway, a SAC heavy-load parking apron, an ADC parking apron, alert facilities, two warm-up aprons, connecting taxiways to the runway and aprons, an aircraft weapons calibration facility, and a power check pad. The runway was 300 ft wide and 13,500 ft long; the SAC parking apron was 775 ft wide and 2,185 ft long; and the ADC parking apron was 500 ft wide and 1,320 ft long. The taxiways were 75 ft wide and were of various lengths. A layout of the airfield is shown in plate 1. A pavement plan indicating the type of pavement on each facility is shown in plate 2.

Previous reports

6. Previous reports concerning GAFB are listed below. Pertinent data were extracted from them for use in this condition survey.

7. Condition survey reports:

- a. U. S. Army Engineer District, Walla Walla, CE, "Pavement Condition Survey Report, Glasgow AFB, Montana," July 1960, Walla Walla, Washington.
- b. Ohio River Division Laboratories, CE, "Condition Survey Report, Glasgow AFB, Montana," March 1961, Cincinnati, Ohio.
- c. , "Condition Survey Report, Glasgow AFB, Montana," October 1965, Cincinnati, Ohio.

8. Pavement evaluation reports:

- a. U. S. Army Engineer District, Walla Walla, CE, "Pavement Evaluation Report, Glasgow AFB, Montana," July 1958, Walla Walla, Washington.
- b. , "Airfield Pavement Failure Report, Glasgow AFB, Montana," June 1959, Walla Walla, Washington.
- Montana, May 1961, Walla Walla, Washington.

History of Airfield Pavements

Design and construction history

9. Details of the construction history of the airfield pavements (extracted from the reports referenced in paragraphs 7 and 8) are

presented in table 1. Pavement thicknesses, descriptions, and other details are presented in table 2.

10. The original pavements constructed during 1955-57 were designed to support (based on reduced subgrade strength design) a 100,000-1b gear load on twin wheels spaced 37.5 in. center to center, with a tire contact area of 267 sq in. for each tire, and to support a 25,000-1b, single-wheel load with a tire inflation pressure of 200 psi. Pavements constructed during 1958-60 and in 1964 were designed to support a load of 265,000 lb on a twin-twin wheel bicycle gear configuration having wheels spaced 37-62-37 in. and a tire contact area of 267 sq in. for each tire.

Traffic history

11. A complete traffic record was not available for this study; however, based on incomplete records, it is reasonable to assume that the pavements constructed before 1964 have received approximately 4600 cycles* of B-52 traffic. The pavements constructed during 1964 have received approximately 2500 cycles of B-52 traffic and approximately 1900 cycles of KC-135 traffic. Since the airfield was placed in an inactive status in June 1968, traffic has consisted of occasional operations of KC-135 aircraft and more frequent operations of light charter traffic.

Conditions of Pavement Surfaces

Pavement inspection procedure

12. The following procedure was used in conducting the inspection of the rigid pavements. Representative features were selected for detailed inspection. The features were then inspected slab** by slab, and the defects were recorded. The locations of the individual pavement features, the inspection starting points, and the directions in which the pavements were inspected (shown by arrows) are indicated in plate 1.

13. The results of the rigid pavement survey for those features that were inspected in detail are presented in table 3. This table

^{*} A cycle of traffic is one takeoff and one landing.

^{**} A slab is the smallest unit, containing no joints, of a given pavement feature.

shows a quantitative breakdown of the various types of defects and a condition rating for each pavement feature inspected in detail. The procedures used for determining the condition rating of a pavement are given in Appendix III of Department of the Army Technical Manual TM 5-827-3, "Rigid Airfield Pavement Evaluation," dated September 1965. Runway

- 14. The portland cement concrete (PCC) pavement of the runway was in very good condition (except for two areas), even though the number of defects had increased considerably since the 1960 survey. The 17-in.-thick pavement from sta 78+75 to 88+75 was rated as being in poor condition, because the number of major defects had more than doubled since the 1960 survey. The 14-in.-thick edges of the runway ends (features R5D and R6D) were considered to be in poor condition. The flexible pavement edges of the runway interior (feature R8D), however, were considered to be in good condition (see photo 1).
- 15. There was evidence of settlement of several slabs in the runway interior between sta 65+00 and 70+00 (feature R7C). It was reported that unsuccessful mud jacking had been performed in this area in 1966 and 1967. An epoxy surface patch approximately 115 ft long and 6 to 8 in. wide was installed to smooth out the transition area onto the settled slabs. There was no evidence that movement of these slabs had occurred since the installation of the patch. Photo 2 shows the condition of the patch. Numerous grouted drill holes (photo 2) were noted in runway features R3C and R4C, indicating that mud jacking had been performed at some previous time. Some settlement of slabs was noted near sta 45+00 (photo 3).

Primary taxiways

16. The conditions of the primary taxiways ranged from poor to very good. There was a significant increase in the number of defects since the 1960 survey in the reinforced PCC portion of taxiway A (sta 0+00 to 81+50). Although only 23 percent of the slabs in this area had no defects, the pavement was considered to be in good condition, because the reinforcement prevented movement along the cracks. The remainder of taxiway A was in very good condition, with only 17 major

defects recorded. The ADC parking apron access taxiway, which contained 30 longitudinal breaks that were mostly located in the two outer lanes, was in poor condition.

Aprons

- 17. The conditions of the aprons were fair to excellent. The ADC parking apron, which contained 201 structural breaks (146 of which were longitudinal cracks), was in fair condition. The SAC heavy-load parking apron (which in the 1960 survey contained 31 breaks), which contained 225 structural breaks, was in very good condition.
- 18. The remaining PCC pavements were generally in good condition. The load-carrying asphaltic-concrete (AC) pavements were considered to be in good structural condition, even though they had a considerable amount of contraction cracking.

Frost Action

Objectives of inspection

- 19. One member of the team inspected the pavement facilities for evidence of detrimental frost effects. The objectives of the inspection were to determine:
 - a. Any adverse effects of frost heave to the pavements during the winter months.
 - <u>b</u>. Any adverse effects of low-temperature contraction cracking to the flexible pavements.
 - <u>c</u>. Any traffic-induced failures that might be related to thaw weakening of the subgrades or base courses.

Frost heave

- 20. The airfield pavements were inspected for surface irregularities indicative of differential frost heaving. The time of this inspection, which was 18 and 19 April 1972, is believed to have been within or shortly subsequent to the period of thawing of frozen base courses and subgrades, when the effects of any nonuniform heave would be most apparent.
- 21. Inquiries were made of the base personnel regarding the development of undesirable surface unevenness during the winter. Pilot

testimony regarding runway roughness was not available, since this base has been inactive since 1968. The consensus of the survey team, however, was that the runway did not exhibit roughness detectable in an automobile at speeds of up to 60 mph.

- 22. Despite the occurrence of low-temperature contraction cracks (as described below in paragraph 26), the flexible pavement edges of the runway interior were as smooth as the rigid pavement keel, with no vertical displacement along the junctions of the two pavement types. Some minor transverse unevenness was noted near sta 70+00 due to settlement of some of the PCC slabs of the keel. Correction of this settlement was attempted (without success) by mud jacking in 1966 or 1967. Installation of an epoxy patch finally eliminated the resulting roughness. There is no evidence, however, that this problem resulted from frost heaving. The large number of longitudinal cracks in the rigid pavement edge lanes of the runway ends (features R5D and R6D) could be indicative of differential frost heaving in the past. This explanation seems doubtful, however, in view of the good performance of adjacent rigid pavement features of the same combined thickness. A more likely explanation is structural failure of the 14-in. slabs, caused by heavy aircraft traffic that may have been permitted inadvertently on these thin pavements.
- 23. The taxiways and aprons were smooth at the time of this inspection. The runway overruns (65-in. combined thickness compared with 52-in. combined thickness of the adjoining runway pavements) also were smooth. The taxiway and apron shoulder surfaces were generally smooth longitudinally but were noticeably uneven transversely. The surfaces of the taxiway shoulders for the most part were as much as 1/2 in. lower than the adjacent taxiway pavement at the junction but rose evenly up to 2 or 3 in. above the taxiway grade at the outer shoulder edge. The small contrawise vertical displacement at the pavement junctions is considered to be the consequence of slightly greater frost heave under the concrete pavement, resulting from the deeper frost penetration. This greater penetration would result because of the higher surface reflectance and lower heat capacity of the PCC. However, the shoulders

of the SAC heavy-load parking apron exhibited heaving of 3 or 4 in. at or near the shoulder-apron junction, with no apparent relation to the combined thickness of the shoulder. It is believed that this heaving was frost related only in part and that expansion of the concrete apron was also involved.

Freezing indices

24. A design freezing index of 3000 degree-days was cited in a condition survey report prepared by the Walla Walla District in 1960 (see paragraph 7a). This value was based on temperature data from the Glasgow International Airport Weather Station for the 3 coldest years in 30. By utilizing temperature data from the same station up to and including the 1971-72 season, a recomputed design freezing index of 3097 degree-days can be obtained representing the average index for the 3 coldest seasons of the past 30. Seasonal freezing indices since the 1957-58 season are tabulated below:

Freezing Season	Freezing Index degree-days	Freezing Season	Freezing Index degree-days
1958-59	2334	1965-66	2151
1959-60	2008	1966-67	2043
1960-61	1169	1967-68	1577
1961-62	2356	1968-69	2985
1962-63	1366	1969-70	1677
1963-64	1100	1970-71	2335
1964-65	3141	1971-72	2192

Mean Freezing Index 1900 (1944 to 1971)

The indices tabulated above were determined solely on the basis of average monthly temperatures. Indices thus determined are generally somewhat lower than those determined with consideration given to average daily temperatures for the transition months. The tabulated indices, however, do indicate the relative severity of winters during the period

of heavy-load aircraft operations. In this respect, two seasons of design freezing index magnitude occurred during the period tabulated above (1964-65 and 1968-69).

been of the design magnitude at least twice since the pavements have been constructed, the general absence of differential frost heaving of the heavy-load pavement is significant. For the design index, combined pavement and base thicknesses of about 140 and 85 in. would be required for the prevention of subgrade freezing and for limited subgrade frost penetration, respectively. Substantial subgrade freezing, therefore, is indicated beneath all of the heavy-load pavements during the colder winters, since the combined thicknesses of the pavements and bases range from only 34 to 70 in. The resulting frost heaving has been remarkably uniform, and the conditions of the pavements indicate that it has been only a minor factor in pavement cracking. Although the groundwater table is reportedly 20 ft or more below the pavement grade, it is probable that there is a perched water table within 5 or 6 ft of the pavement surface, as ponding was noted in several areas.

Low-temperature contraction cracking

26. Annual temperatures at the base vary over a range of at least 160 F, and all flexible pavements have experienced significant low-temperature contraction cracking. These cracks are not induced by traffic or frost heaving but result from a stiffness characteristic of AC at low temperatures and its inability to withstand or adjust to thermal contraction stresses. Most of these cracks are transverse, but there are also numerous longitudinal cracks generally coinciding with the longitudinal paving joints. Raveling is not yet severe at these cracks, but, as the pavements age, progression should be expected. The contraction cracking does not appear to have adversely affected either the load-carrying capacity or the smoothness of the pavements. The runway overrun pavements appear to be the least affected by this type of cracking. Apparently the thin, double bituminous surface treatment is more tolerant of thermal contraction stresses than the thicker AC. This

fact may reflect a greater tolerance of such stresses by these lowstability surface courses but more probably results from the lower temperature susceptibility of the bitumen used.

Thaw weakening

- 27. The extent of thaw weakening of the subgrade and base courses could not be readily determined by inspection of the pavements. Pavement failures usually are repaired or otherwise corrected (as with overlays) as they occur and usually are not easily examined during a condition survey. However, even where examination is possible, it is often impossible to establish by visual observations whether a failure is the result of thaw weakening or of deficiencies in the thickness of the pavement components with respect to "normal" period conditions. The depletion of the fatigue resistance of a pavement system in a frost area is progressive under repeated loadings and is related to thaw weakening in that the rate of depletion is greater during the frostmelting period. This rate of pavement weakening holds true whether the evidence of fatigue or failure becomes apparent during the melting period or at some other time. The degree of thaw weakening and its effects, if any, on the condition of the pavements at GAFB consequently could not be appraised solely by this inspection. Some limited perception of the severity of thaw weakening effects can be gained, however, by comparing the performance of certain pavement features with what might be expected in the light of current frost design criteria.
- 28. The only heavy-load flexible pavement features at this base are taxiway D, with a combined thickness of 55 in., and the outer edges of the runway interior, with a combined thickness of 59 in. In both of these features, the combined thicknesses are substantially less than the 72 in. required by current design criteria for limited subgrade frost penetration. Their combined thicknesses compare more closely with the medium-load pavement requirements for thicknesses on subgrades of reduced strength. Despite this overall weakness, however, both of the features appear to be in good condition. B-52 aircraft operated at this base for only a few years, although significant amounts of B-52 traffic did occur (paragraph 11). Both the pavements and the criteria

can be considered to have been only partially tested at this base.

29. The heavy-load rigid pavement features at this base generally conform to current design criteria for reduced subgrade strength during the frost-melting period. Three features, however, do not. These features are the SAC parking apron taxiway, with a base thickness 11 in. less than that required by the criteria; the SAC parking apron, with a base thickness 3 in. less than that required; and the portion of the runway interior between sta 78+75 and 88+75, with a base thickness 21 in. less than that required. The SAC parking apron taxiway is in excellent condition. The use of reinforcement undoubtedly is responsible for the good performance of this feature, despite a substantial deficiency in base thickness. The SAC parking apron also has performed well. This performance, however, is less surprising, since the base thickness deficiency is relatively minor. The cited portion of the runway interior, as might be expected, has not performed well, and there has been considerable load-related cracking and some evidence of slab subsidence.

Maintenance

30. Maintenance at the airfield has been minimal since 1964. Other than the repair of a longitudinal joint in 1966 or 1967, no maintenance was reported from 1964 until GAFB was closed in 1968. Since 1968, no airfield pavement maintenance has been performed.

Evaluation

31. A summary of the pavement evaluation is given in table 4. Previously published pavement evaluations were updated to eliminate aircraft that are no longer in the Air Force inventory and to include aircraft that have been added to the inventory since the last pavement evaluation. The evaluation is based on the pavement thickness, flexural strength (PCC), base and subbase thickness and strength, strength of subgrade (CBR or k value), and the structural condition of the pavement.

Table 1 Airfield Construction History

	Dimensio		Pavement			
Designation	Length	Width	Thickness	m	Constru	
Designation	<u>ft</u>	ft	in.	Type	Year(s)	Agency
NW-SE runway	13,500	300	26, 23, 21, 17, and 14	PCC	1955-59	CE
			6, 4, and 3	AC	1955-59	CE
Inlay sta 9+75 to 78+75	6,900	75	21	PCC	1964	AF
Taxiway A	13,000+	75	26 and 23	PCC	1958-59	CE
			15*			
Taxiways B and F	937	75	26	PCC	1958-59	CE
	862	75	26	PCC	1958-59	CE
Taxiways C and E	862 each	75	21	PCC	1958-59	CE
Taxiway D	862	75	14	AC	1955-57	CE
Taxiway G	900 <u>+</u>	75	23	PCC	1958-60	CE
NW warm-up apron	Varies	Varies	23	PCC	1958-60	CE
SE warm-up apron	Varies	Varies	23	PCC	1958-60	CE
SAC parking apron, apron	2,185	775	21 (Plain)	PCC	1958-60	CE
taxiway, and access taxiways (2)	2,835	75	21**	PCC	1958-60	CE
	250 each	75	21**	PCC	1958-60	CE
ADC parking apron	1,320	500	17	PCC	1955-57	CE
ADC access taxiway	560	75	19	PCC	1955-57	CE
ADC access taxiway	560	75	14	AC	1955-57	CE
Hangar access apron area 1 and taxiway	Varies	Varies	17	PCC	1959-61	CE
Hangar access apron area 2 and taxiways	Varies	Varies	15	PCC	1955-57	CE
ADC alert apron and taxiway Taxiway A extension	Varies 600	Varies 75	3 3	AC AC	1955 - 57 1955 - 57	CE CE
SAC alert apron stubs and taxiway	Varies	Varies	23	PCC	1959	CE
Aircraft weapons calibration facility	Varies	Varies	10	PCC	1960	CE
Power check pad, 50-ft radius			10	PCC	1963	AF

Note: CE denotes Corps of Engineers; AF denotes Air Force.

* Reinforced overlay on 4-in. AC.

** Reinforced.

FACILITY				OVERLAY PAVEMENT			PAVEMENT			BASE		SUBGRADE	П	GENERAL
FACILITY NUMBER AND IDENTIFICATION	LENGTH	WIDTH FT	THICK.	DESCRIPTION	FLEX. STR PSI	TAICK.	DESCRIPTION	FLEX. STR PSI	THICK	CLASSIFICATION	* % ×	CLASSIFICATION	# 8 ×	OF AREA CONSIDERED
						THI	PEDMET RIBMAY			And the second s				
100-100 runsing, 30 end;	1,000	520				8	Fortiand cessort concrete	960	8	Select gravel (56) 373	871	(TAY (CL) 73		Very good
MA-SE running, M end; sta 124-75 to 125-75 813	88	10				18	Fortland cement concrete	760	8	Select gravel (36) RTS	1 280 K	Clay (Cl.) 73		Very good
MM-SE rumsny, 3E end; ats L+75 to 9+75	90%	150				83	Portland cement posservice	760	539	Select gravel (58) HTS	160	Clay (CL.) 75		Nery good
MW-dE rursay, MW end; atm 113+75 to 120+75 S2B	88					82	Fortland cement constrets	260	82	Select gravel (SE) SUS	091	OAy (CL) 73		Very good
MA-SE runnay interfor; eta 35 K3 to 119 '5 895	3,100	8				63	Fortland cesent concrete	760	5	Select gravel (SA) NYS	001 001 001 001 001	ctay (ct.) F3		Very good
Wing runsay Interfor: ats 78475 to 88479 RAC	1,000	8				17	Fortland cement concrete	85	£7	Select gravel (56) SES	8,130 130	otay (ct.) F3		Poor
M-05 runsuy ends; sts 119475 to 129475 snd uts -5425 to 9475	1,900	12.5				1	cartland sement constitue (1 lane transition to 23-26-16, thickness)	400	%	Calent gravel (M) Mill	2000	E4 (III) 440		Pour
Mi-32 Funency on the state of a LDP-PS to LSM-PS end of a Mi-175 to SP/75 and SP5.	300	55				4.5	Contract cenent controls (1 labe transition to S-is, thickness)	992	19 0	Select gravel (36 NYS	8	STAS (SL) 73		Foor
MA-UE remarky interfer (intay); sta 2473 to 78479 HTC	9,900	52				22	Fortland sement condrete	2770	18	Select gravel (dk) (F)	150	Chay (Ch.) F3		Very good
iR-SE runnay interior, sta 9475 to 119475, each side	11,000	75				es	Amphalthe commrete		8 B	Dase-crushed gravel (GH) Subbase-select gravel (GH)	100	Chay (GD) F3	- 40	Coord
Mais runky interior; sts 947 to 78475 ends alde BBD	6,900	37.5				-	Ambaltiz concrete		39 66	Baze-cristed gravel (GW) Subbase-selest gravel (GW)	130	Chay (CL) 73	V.	Good
							TAKETMAYB							
Tachey A, sts 0400 to EL-50	8,150	10	57 = 38 9 = 15	Fortland sement on- crete reinforced #5 kers, 12 fs. crc. 0.17 percent steel each way	810	er .	Aspinality concrete K < 500		z.	Select gracel (SK) IPS	28 L	(th) F3		Stood
(week)				1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -										
are also	present	Trong and	throughout the airliein	irrieis.							1		10	of 3 sheets

Table 2 (Continued)

SUMMARY OF PHYSICAL PROPERTY DATA

				OVERLAY PAVEMENT			PAVEMENT			BASE		SUBGRADE		GENERAL
GLASSING APER, MONTHAIN FACILITY NUMBER AND IDENTIFICATION	LENGTH	MIDTH	THICK.	DESCRIPTION	FLEX. STR PSI	THICK.	DESCRIPTION	FLEX. STR PSI	THICK.	CLASSIFICATION	8 % ×	CLASSIFICATION	* 8 ×	CONDITION OF AREA CONSIDERED
						YAXEWAYS	YS (Coutinaed)							
Taxiany A, sta 81+,0 to 129+77	1,527	75				23-26-23	Fortland cement concrete	610	18	Select gravel (GM) NGS	180 180 180 180	Clay (CL) F3		Yery good
Taxivay F	937	25					Fortland cement			Select gravel (GK) NF2	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Chay (CL) 183		Excellent
Textienys A and F. connection "3A	275	75				56		71,0	98					
Taxtuay B	962	52				95	Fortland cement	052	98	Select gravel (54) NES	260	Clay (CL) 83		Very good
SAC apron taxinay and	2,835	32				23	Fortland cement concrete	74.5	623	Select gravel (SK) NFS	160	Clay (12,) 73		Excellent
apron secesa taxikeys (2)	250						Seinforced #5 bars,7 in. 6-0, 0.21 percent of steel each way				F,135			
ADC agron access taxinay 75A	296	3.5				17-19-17	Fortland cement concrete	545	11	Select gravel (30) NFS	130 X,120	Clay (01.) #3		Roor
ADC apron access taxbog	2965	52				-7	Asphaltic cement		150	6 in, crashed gravel (GW)	80+	Clay (ct.) 73	10	
£7.h										19 in. crushed gravel.	80*			
Taxiany G	900 Approxi-	75				53	Portiand cement congrete	760	8	Salect gravel (GK) WES	180	Clay (GL) F3		Very good
SAC slert (scilities	rregu-	52				23	Fortland cement	2775	68	Select gravel (GW) NYS	160	Olay (GL) F3		Very good
Taxiway and atubs 198		150												
Sangar sceess agron	rregu-	Irregu-				7.7	Fortland cement	699	27	Select gravel (GW) NFS	-	Clay (CL) 73		Fair
Ares 1 and taxiways Tiob		12					(Steel reinforcement in some slabs)				X,100			
Hangar sceess apron		Irregu-				1.5	Portland cement	.599	17	Select gravel (54) NTS	130	Clay (CL) 75		781.r
Area 2 and taxiways	rregu-	75									K,100			
Aircraft weapons calibration facility	103	100				97	Portland cement concrete	700	SI	Select gravel (GW) MFS		Clay (CL) 73		Excellent
Fower check pad (50-ft radius) and taxionay TISC	330+	8									3.			

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Table 2 (Continued)

MARY OF PHYSICAL PROPERTY DATA

	FACILITY				OVERLAY PAVEMENT			PAVEMENT			BASE		SUBGRADE	-	GENERAL
The control of the	SECUTY NUMBER AND IDENTIFICATION	LENGTH	MIDTH FT	THICK		FLEX. STR PSI	THICK	DESCRIPTION	STR PSI	THICK	CLASSIFICATION	X OR X	CLASSIFICATION	4 8 ×	OF AREA CONSIDERED
Application with background 15 25 25 25 25 25 25 25							TAXIN	ves (continued)							
Firego- Firego-		862	55				17	Fortland cement concrete	730	82	Select gravel (GA) SFS	160 K,135	CINy (CIL)		Excellent Very good
Firegon Fregon 19 19 19 19 19 19 19 1								APRONS							
Fig.		Irregu-	Irregu-				50	Asphaltic concrete			18	90-			
17.5 18.6 17.5 18.6 17.5 18.6	TIAC									52	17.0	6	(E) F3	0	
1780 200 200 200 201	Q	862	75				all .	Aspealtic concrete		v 33	Crished gravel (GW) Select gravel (GW)	1004	(5)	Front	
Als 750 (Al Discover) (Al Disc								AFRONS							
Alice Section Alice Al	merm-do apron	900 Trregu-					63	Portland cement	138	52	Select gravel (34) NFS		(32)		Scellent
Filtre upton Arg 77 2115		750													Very good
130 130 130 130 130 131 200tland cement 690 17 20tes (rt) 75 130 1			2185				E.	Portland cement concrete	745	22	(80)	-	clay (ct.)		Yery good
150 300			1320				17	Fortland cement concrete	630	17	(MD)		Clay (CL)		Fair
150 300 150	SE runway overruns 5+25 to -6+7;	057	300				O.	Asphaltic concrete		6	6 In. crushed gravel (IM) or 57 in. select	100.	Clay (Ct.) 73	45	Excellent
850 300 300 500		957	300												
890 300 800 300		850	300					Double bituminous cur-		59	6 in, crushed gravel (3W) on 59 in, select			0	
		98.8	300												

DATE	pril 1972		SUMMARY OF	MAF	2 €		DATA	1		RIGID PAVEMENT CONDITION SURVEY	PAVE	EME	Z	Ö	5	o O	S	RVE	>		Clasgow APB, Not	STATE	
EAT	FEATURE		APPROX	PAVE.			2	OF	SLA	ABS	NO. OF SLABS CONTAINING INDICATED DEFECTS	AIN	NG.	NDIQU	ATE	D DE	FEC	TS	200		% OF SLABS	% OF SLABS NO	O.F.ONO.
NO DES	DESIGNATION	SIZE	SLABS IN	I CK	-	1	1	٥	*	×	\$	S	b	7	¥ → →	Σ	٥	0	U	۵	NO DEFECTS	MAJOR	
FIR-SE end: sect	-SE runeny, Na 1: 225-ft-wide -tion, sta -75 to 120-75	25 by 25	180	36	m	.1					6							-7			4.08	96.3	Very Rood
SA-S ent; sect	W-SE runway, SE nd; 225-ft-wide ection, stm 5+85 to 4+75	25 by 25	960	92	QI.		.2	2			o.		64	CV			_	9-			3.06	g g	Soot from
end; ter a	m-SE runway, Mand; 150-rt cen- ter section, sta	25 by 25	120	60	.7			-			υ							-			N C	9 8	Social Grant
end: ter s	M-SE runey, 3E end; 150-ft cen- ter section, sta 1+75 to 9+75	25 by 25	150	53	m		5	io.					č								oy S	6	very good
100 100 100 100 100 100 100 100 100 100	Si-Si runway in- terior; center 150 ft, sta 88+75 to 119+75	25 by 25	750	21	9	pri .	a				1.5		icy.					2			***	7.75	very good
120 150 1341	NM-JE rimway in- terior; center 150 ft, sta 78+75 to 88+75	25 by 25	046	17	15	-	16	~	-		6		er:						0		ř.	ź	1000
Ter.	M-SE cursay in- cerior; center 75 ft. sta 9475	56 Aq 56	928	27	64	ov.		Oč			es es				DV .			-	ni.		61.6		very good
end:	#-3E runway, 78 sui; 75-ft-wide dge, sta 119+79	25 by 25	120	119	59		W)	χ.			17 h										35.0	O 64	Poor
end; 7 edgs, to 947	SE runseny, SE : 75-ftside h, sta -5+25 3+75	58 Py 25	190	#	8	-2	10	.2			g g		2								200	0.00	100
end edge to	3E rumeny, Na ; 75-75-wide e, atm 119+75 124-75	25 by 25	09	7.	63						22						-				28.3	0,00	Foor
Ž.	REMARKS:																						
EG	LEGEND:	-1/4**	1 2 4 9 9 4 2	LONGITUDINAL C TRANSVERSE CF DIAGONAL CRAC CORNER BREAK SHATTERED SLA KEYED JOINT	ONGITUDINAL CRACK FRANSVERSE CRACK SIAGONAL CRACK CORNER BREAK SHATTERED SLAB (EYED JOINT FAILURE	CRACK SACK SK SK SK SK SK SK SK SK SK SK SK SK SK	, H			きのりずつ◆	SHR SCA SPA SPA COR	SHRINKAGE C SCALING SPALL ON TE SPALL ON LC CORNER SPAI SETTLEMENT	SHRINKAGE CRACK SCALING SPALL ON TRANSV SPALL ON LONGITI CORNER SPALL SETTLEMENT	ANSV NGITU	SHRINKAGE CRACK SCALING SPALL ON TRANSVERSE JOINT SPALL ON LONGITUDINAL JOINT CORNER SPALL SETTLEMENT	1 or J	F 7		2000	P P C C C C C C C C C C C C C C C C C C	MAP CRACKING PUMPING JOINT POP- OUT UNCONTROLLED CONTRACTION CRACK *D* CRACKING	CRACK	

IES FORM NO 300

DATE	E: April 1972		SUN	MMARY		8	DATA	4		RIGID		PAVEMENT	ENT	8	Q	CONDITION		SURVEY	7		AIRFIELD:	rteba	
3	FEATURE		APPROX	PAVE			Ž	NO. OF	1	ABS	00	14 A	SNE	N N	CAT	ED C	SLABS CONTAINING INDICATED DEFECTS	TS.			% OF	% OF	0.100
Š	DESIGNATION	SIZE	SLABS IN.	I K	_	1	/	٥	*	¥	\$	S	h	7	7	•	∑	0	O	۵	0	MAJOR	2000
860	Mr-CE rubsey, 32 end; 79-ct-wilde edge, sts 1-75	25 by 25	8	4	81			-							o _z						4.75	6.13	Poor
VII.	Taxiony A, ata 0+00 to \$1+90	25 by 50	99	rein- forced ot/Ac	9	N	0		ž,		101	-	ď.					-			33.5	05 05 05	Smod
#554 #554	Taxtery A, sta 81*50 to 125*77	25 by 25 Variable	196	83-90-63	60	17	(e)	40			2	-	4		N			28			91.5	97.8	Very good
13X	Taxtway ?	25 by 25 Variable	187	98	01		et				10		m1		ru.				-		81.7	4.80	Excellent
74.A	Tuxdway B	25 by 25 Variable	173	Ж	17			14			Cu.		co.		¢χ	(U					83.5	8.09	Very good
15A	SAC parking apron taxlesy and apron access	25 by 25 Variable	1,58	21 rein- forced	-			œ			m		я	1-	90			\$	9 12		6.4	er 86	Excellent
TEA	AUC parking spron access taxivay	25 by 25 Variable	9.	17-19-11	OE 2	н	1	7			11		n						90		42.4	69.3	Poet
161	Taxteny O	25 by 25 Variable	122	23		Cu	d	TV .					0	at .					4		86.1	93.4	Very good
193	SAC alert taxi- way and stubs	20 by 20 25 by 25 25 by 25	3906	g .	表	4	з	6			0	10	10	(6)	17			2			0.02	0.59	Very good
713c 713c	Taxlway C Textway E	25 by 25 Variable	121	ពព	0/01	C)	п	Di .			HO	en .	Ψ	O.					DI-1971		5.6	98.5	Excellent Very good
8	REMARKS:	Features	Peatures T108, T118, and T120 were not surveyed in detail.	s, and Tl.	20 se 20	not sur	reyed in	detail.															
]	LEGEND:	-1/4*		1 5 4 4 4	NAL ISE C CRA SREA! D SL	DINAL CRACK ERSE CRACK L CRACK BREAK RED SLAB	X X			ないまつ母		SHRINKAGE CRACK SCALING SPALL ON TRANSVERSE JOINT SPALL ON LONGITUDINAL JOINT CORNER SPALL	S ON T	CRACI	VERS	E JO	TNI O		2000		MAP CRACKING PUMPING JOINT POP-OUT UNCONTROLLED CONTRACTION CRACK "D" CRACKING	CRACK	
3	ON MOOS SE		1				1			1	1	1											(2 of 3 sheet

WES FORM NO 2004

FEATURE 31.48 APPRON PAVE NO OF SLABS CONTAINING INDICATED DEFECTS Strong	ا ۵	DATE: April 1972		SUM	SUMMARY OF DATA	3	20	DAT	1	ā	GID	PA	/EM	ENT	ö	ONC	TIC	RIGID PAVEMENT CONDITION SURVEY	SUR	VEY		₹	AIRFIELD:	Lana	
Size Mo of THICK - \ \ A	-	FEATURE		APPROX	PAVE			ž	0.0	SL	ABS	000	AL	NING	N	ICA	LED	DEFE	CTS	100			% OF	% OF OF	
## SHOWER STATE OF THE FOLLOWING TABLES OF THE FOLLOWING STATES OF THE FOLLOW	2			SLABS	N K	_	I		-	*		*			7	7	•		0	0			NO	MAJOR	CONDITION
State Stat	A118	ă	25 by 25	37%	23		6	7				10		(e)						2			6106	9,68	Exectlent
Second S	A1B	96 60	No.	袁	23	·o	64	60	CIL			ev.		¢4						ja:			11.88	97.60	Very good
Corner Break	AZB		No.	2336	21	508	72	п	IO			3		-	98	co.				5909	8		72.7	4706	Very good
LONGITUDINAL CRACK	AGB		20	972	11	136.	24	40	30	н		5			n	10	6			-	801		0.00	P) (6)	Philip
LONGITUDINAL CRACK															1							+			
I LONGITUDINAL CRACK - TRANSVERSE CRACK - TRANSVERSE CRACK SCALING V DIAGONAL CRACK J SPALL ON TRANSVERSE JOINT CORNER BREAK SHATTERED SLAB J CORNER SPALL K KEYED JOINT FAILURE SETTLEMENT																									
I LONGITUDINAL CRACK - TRANSVERSE CRACK - TRANSVERSE CRACK - TRANSVERSE CRACK S SCALING ✓ DIAGONAL CRACK J SPALL ON TRANSVERSE JOINT Ø SPALL ON TRANSVERSE JOINT Ø SPALL ON LONGITUDINAL JOINT K SHATTERED SLAB J CORNER SPALL K KEYED JOINT FAILURE Ø SETTLEMENT																									
LONGITUDINAL CRACK	1																								
LONGITUDINAL CRACK																									
LONGITUDINAL CRACK	uz .	REMARKS:																							
TRANSVERSE CRACK DIAGONAL CRACK CORNER BREAK SHATTERED SLAB SEALL ON TRANSVERSE JOINT SHATTERED SLAB CORNER SPALL CORNER SPALL CORNER SPALL D KEVED JOINT FAILURE SETTLEMENT	17	EGEND:	-	LONG	TUDIA	IAL C	CRAC	×			1		RINKA	GE O	RAC	Y				-		AP C	RACKING		
CORNER BREAK SHATTERED SLAB CORNER SPALL CORNER SPALL CORNER SPALL CORNER SPALL D SETTLEMENT			1/	DIAGO	SVER	SE C	RACK CK				SP	S S	ALING	, NO	RANS	VERS	2	IN.		-0		UMPIN 10P - OL	IG JOINT		
KEYED JOINT FAILURE SETTLEMENT			4		ER BI	REAK	0				37	S, O	ALL C	SPA	ONGIT	TUDIA	IAL ,	TNIO				ONTR	TROLLED ACTION C	RACK	
			×		9	FN	FAILL	JRE			4	SE	TTLE	MENT											

WES FORM NO. 2004

MOM	MONTH April YR 1972	VALUATION VR. 1972				TRIC	TRICYCLE ARRANGEMENT	EMENT				BICYCLE	
		PAVEMENT	SNGLE 100-PSI THE PRESSURE	SINGLE 100-SQ-IM. CONTACT AREA	SINGLE Zal-Noin CONTACT AREA	TW ZBAIN, G-C ZZB-SQ-IN, CONTACT AREA EACH TIME	SINGLE TANDER 60-N. SPACING A00-50-IN. CONTACT AND	Tw 83-M. C-C. 267-30-IN CONTACT AREA EACH TIRE	Ta 44-IN, C.C. 630-3Q-IN, CONTACT AREA CACH TIME	Ten Tander Sin e in Secola	COMP.	10	HEMARKS
NO.	DESIGNATION	USE	1	2	8	4	un.	9	7	8	o	10	
RLA	NW-SE runway, SE Capacity end; sta -5+25 to 4+75	Capacity	155,000+	85,000+	155,000+	+000,0004	-000° 0002	330,000+	230,000+	380,000+	800,000+	-000°009	
	WW-SE runway, NW Frost capacity end: sta 124475 to 129475	Frost capacity	155,000+	85,000+	155,000+	520,000+	200,000+	330,000+	230°000+	380,000+	800,000+	590,000	
RZB	IW-SE runway, SE Capacity end; sta 4+75 to 9+75	Capacity	155,000+	-000÷58	155,000+	220,000+	+000°*000	330,000+	230,000+	380,000+	800,000+	560,000	
	WW-SE runway, NW Frost capacity end: sta 119475 to 124475	Frost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	£30,000+	380,000+	800,000+	580,000	
R3C	NW-SE runway in-Capacity terior; sta Prost ca 88475 to 119475	Capacity Frost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+	+000*009 +000*009	
вьс	W-SE runway in- Capacity terior; sta Prost cap 78475 to	Capacity Frost capacity	155,000+	85,000+ 85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+ 800,000+	440,000 420,000	
R7C	terior (inlay); sta Prost capacity 9475 to 78475	Capacity Frost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+	+000°,009	
TJA	Texiway A, sta 0+00 to 81+50	Capacity Frost capacity	155,000+	85,000+ 85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+	000°055	
TEA	Taxiway A, sta 81+50 to 125+77	Capacity Frost capacity	155,000+	85,000+ 85,000+	155,000+	220,000+	+000°,000	330,000+	230,000+	380,000+	800,000+	570,000	

Note: + sign denotes allowable gross loading greater than maximum gross weight or any existing aircrat having indicated gear configuration.

(a) denotes allowable gross loading less than minimum gross weight of any existing aircraft having indicated gear configuration.

WES FORM NO. 999

EDITION OF AUG 1960 IS OBSOLET

(1 of 3 sheets)

"able h (Continued)

SUMMARY OF PAVEMENT EVALUATION

PEATURE DESIGNATION That way F That way F That way F A and F Connection That way E SAC agron taxi- way and two	PAVEMENT OPERATIONAL USE					THE PARTY WASHINGTON	EMENT				BICYCLE	
F A and F B B an taxi-	OPERATIONAL USE	SINGLE TOD-PSI	SINGLE 190-50-IN,	SINGLE	T# 28-1N, C-C 226-50-1N.	SINGLE TANDEM BOLN, SPACING A00-50-IN.	T# 39-IN C-C 267-5Q-IN CONTACT AREA	** *** C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C.C	7 MIN TANDEN 33 IN 1 M IN 206.50 IN	C.544 D.C.448	TWIN TWIN SPCG 3148231 287-50-18	REMARKS
F and F trion B B con taxi-	Cananita	TIME PRESSURE	CONTACT AREA	CONTACT AREA	EACH TIME	CONTACT AREA	EACH TIRE	EACH TIRE	8 S CH 7188	6	100 THE 100 THE	
tion B b n taxi- nd two	Part and The	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+	+000*009	
B on taxi-	exiways A and F Frost capacity connection	155,000+	85,000+	155,000+	220,000+	+000,005	330,000+	+000,082	380,000+	800,000+	+900,009	
on taxi-	Capacity	155,000+	85,000+	155,000+	220,000+	+000°002	330,000+	230,000+	380,000+	800,000+	+000,000	
on text-	Frost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+	+000,000	
apron access	Capacity Frost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+ 800,000+	+000,009	
C apron access	ADC apron access Capacity taxiway Frost capacity	150,000	85,000+ 85,000+	155,000+	205,000	200,000+ 200,000+	190,000	230,000+	330,000	800,000+ 800,000+	285,000	
Capron access taxiway	ADC apron access Capacity taxiway Prost capacity	105,000	60,000	100,000	120,000	125,000	100,000	120,000	130,000	390,000	(a) (a)	
Taxiway G	Capacity Frost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+ 800,000+	580,000	
C alert facil- ities, taxi- way, and stubs	Capacity Prost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+ 380,000+	800,000+	000,066	
Hangar access apron area 1 and taxiways	Capacity Frost capacity	155,000+	85,000+ 85,000+	155,000+	205,000	200,000+	225,000	230,000+	380,000+	800,000+	320,000	
Hangar access apron area 2 and taxiways	Capacity Frost capacity	125,000	85,000+	155,000+	175,000	200,000+	200,000	230,000+	310,000	800,000+	250,000	
Aircraft weapons calibration shelter, apron, and taxiway	Capacity Frost capacity	90,000	75,000	130,000	140,000	200,000	160,000	210,000	300,000	800,000-	(a) (a)	
	t facil- taxi- nd stubs access access area 1 xivays area 2 xivays reapons ation ation civay	1	pacity pacity pacity pacity	155,000+ pacity 155,000+ pacity 156,000 pacity 126,000 pacity 126,000 pacity 96,000	155,000+ 85,000+ pacity 155,000+ 85,000+ pacity 150,000 85,000+ pacity 120,000 85,000+ pacity 120,000 75,000 pacity 90,000 70,000	155,000+ 85,000+ 155,000+	155,000+ 85,000+ 155,000+ 220,000+ 155,000+ 85,000+ 155,000+ 220,000+ 155,000+ 85,000+ 155,000+ 215,000 155,000+ 85,000+ 155,000+ 205,000 125,000 85,000+ 155,000+ 175,000 125,000 75,000+ 155,000+ 165,000 125,000 75,000 125,000 140,000 125,000 70,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 130,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,000 125,00	155,000+ 85,000+ 155,000+ 200,000+ 200,000+ 200,000+ 155,000+ 155,000+ 215,000+ 200,000+	155,000+ 85,000+ 155,000+ 220,000+ 200,000+ 330,000+ 330,000+ 350,000+	155,000+ 85,000+ 155,000+ 220,000+ 230,000+	155,000+ 85,000+ 155,000+ 220,000+ 230,000+ 230,000+ 380,000+	155,000+ 85,000+ 155,000+ 220,000+ 230,000+ 230,000+ 380,000+ 800,000+ 155,000+ 85,000+ 155,000+ 215,000+ 210,000+ 230,000+ 380,000+ 800,000+ 155,000+ 85,000+ 155,000+ 175,000+ 175,000+ 200,000+ 220,000+ 230,000+ 370,000+ 125,000 85,000+ 155,000+ 175,000+ 175,000+ 185,000+

EDITION OF AUG 1960 IS OBSOLETE.

WES FORM NO. 959

Table h (Continued) SUMMARY OF PAVEMENT EVALUATION

-		-		-	1	-	The same of the sa	The same of the sa	-	The same of the same of the same of	The same of the same of the same	-	-
NAME	NAME OF AIRFIELD: CLASSON AFF	ow APB	,	DAD-CARRYIN	G CAPACITY IN	LB OF GROSS	PLANE LOAD F	OR INDICATED	LANDING GEA	COADICARRYING CARACITY IN LB OF GROSS PLANE LOAD FOR INDICATED LANDING GEAR TYPES AND CONFIGURATIONS	VEIGURATIONS		
M	DATE OF EVALUATION MONTH April vR 1972	1972				TRIC	TRICYCLE ARRANGEMENT	EMENT				BICYCLE	
	FEATURE		-	SINGLE 100-5Q-IN	SINGLE 241-30-IN	78 28-18, C-C 226.5Q-18 CONTACT 4REA	SINGLE TANDER 60-IN: SPACING 400-50-IN	TW 37-IN, G-C 267-50-IN. CONTACT APEA	78 44-1N, C-C 630-5Q-1N, CDN7ACT AREA	7 81 N - 48 IN 228 55 Culv	CAA	TWN TWN SPCG MAR-37 20-50-19	HEWARKS
NO.	DESIGNATION	OPERATIONAL USE		2	3	EACH TIRE	CONTACT ANEA	EACH TIRE	CACH TIRE	EACH YORE	6	CACH TIME	
T130	Thriways C and E	Capacity Prost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+ 230,000+	380,000+	800,000+	+000,000	
TIME	ADC alert facil - Capacity ities and Frost cap taxiways	Capacity Frost capacity	100,000	45,000	95,000	100,000	150,000	125,000	1345,000	165,000	480,000 (a)	(a) (a)	
T15c	Taxiway D	Capacity Frost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000• 780,000	440,000	
ATB	Wwwarm-up apron Capacity SE warm-up apron Prost capacity	Capacity Frost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+ 800,000+	580,000	
A2B	SAC heavy-load parking apron	Capacity Frost capacity	155,000+	85,000+ 85,000+	155,000+	220,000+	200,000+	330,000+	230,000+	380,000+	800,000+ 800,000+	600,000+ 600,000+	
А3в	ADC parking apron	Capacity Frost capacity	155,000+	85,000+	155,000+	220,000+	200,000+	300,000	230,000+	380,000+	800,000+	400,000 370,000	
			-				1	-	1	-			1

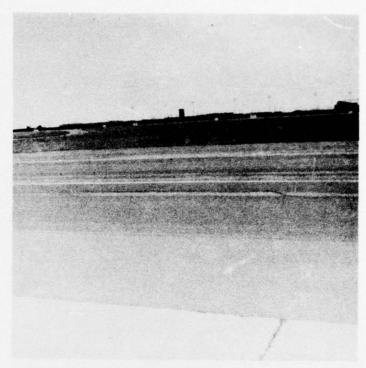


Photo 1. General view of AC pavement of outer edge of runway interior (feature R8D) near sta 45+00



Photo 2. Epoxy patch and grouted drill holes

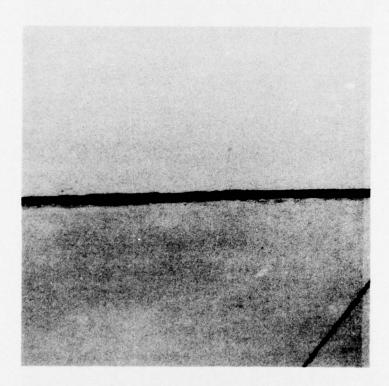
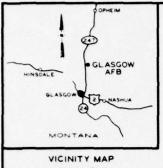


Photo 3. Settlement of slab near sta 45+00 of runway



SCALE IN FEET

LEGEND

FEATURE DESIGNATION (SEE NOTE I)
SURFACE PAVEMENT THICKNESS AND TYPE RIX 2"AC

TYPE OF FEATURE

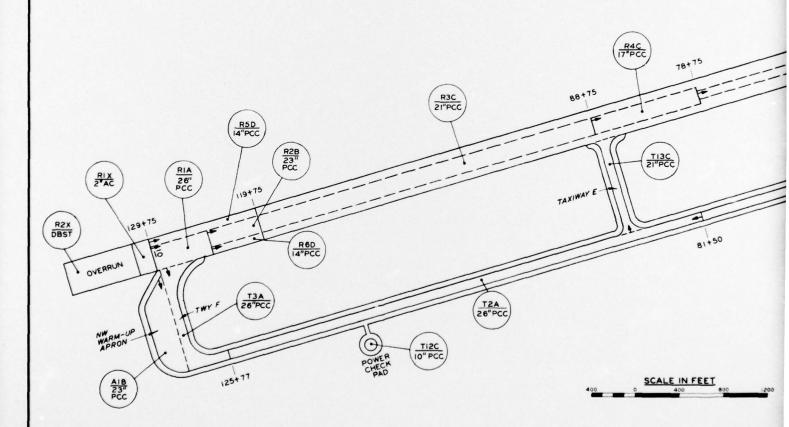
- R-RUNWAY T-TAXIWAY A-APRON

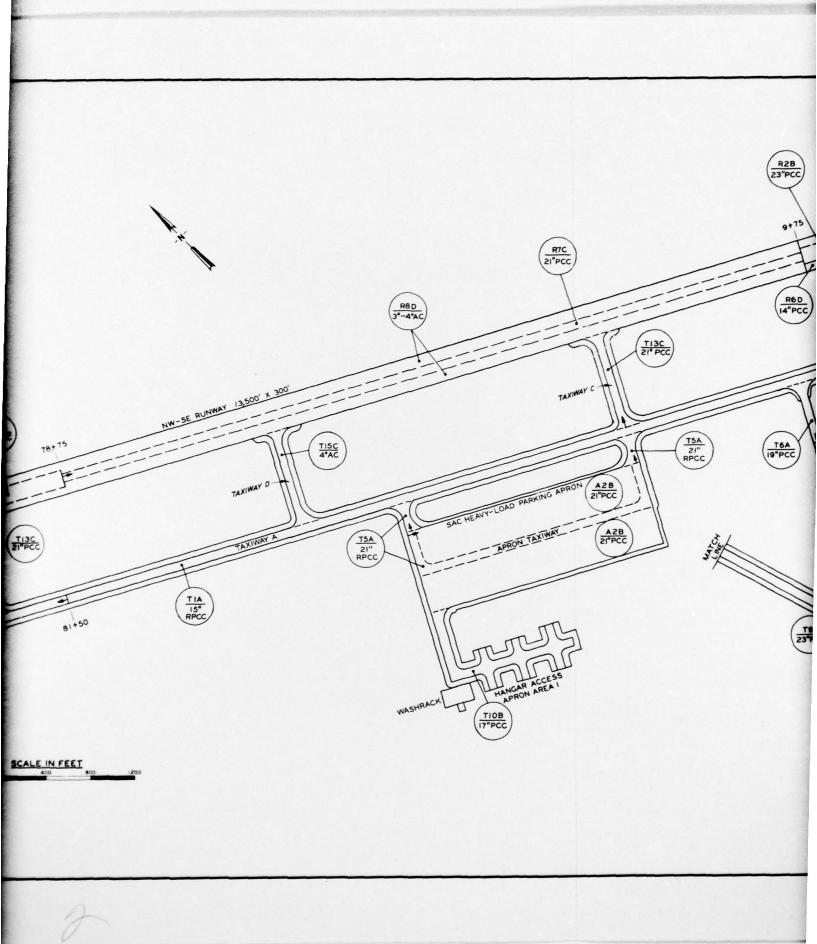
TYPE OF TRAFFIC AREA (SEE NOTE 2)

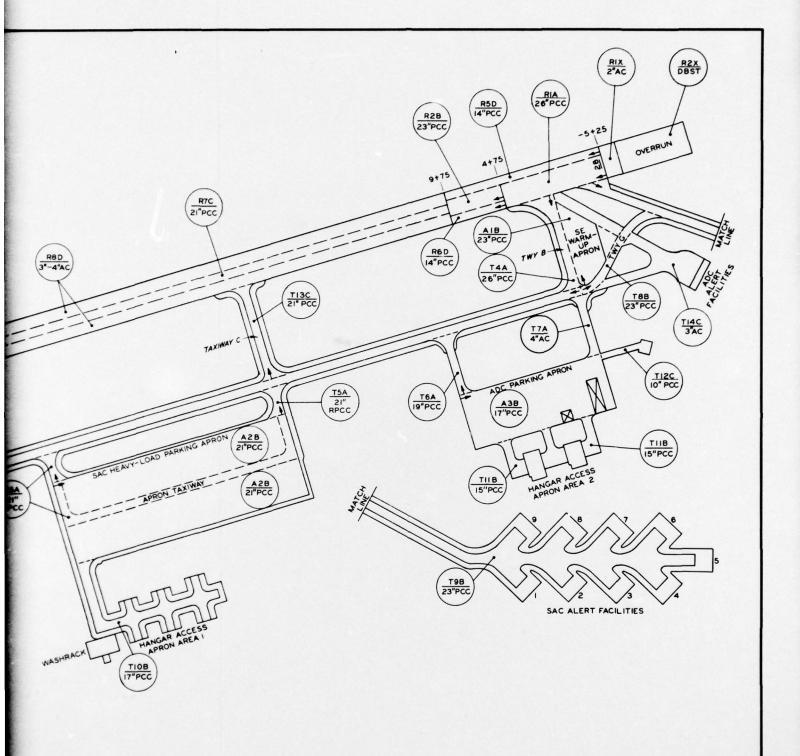
- A- A TYPE TRAFFIC
 B- B TYPE TRAFFIC
 C- C TYPE TRAFFIC
 D- D TYPE TRAFFIC
 X- NO TRAFFIC TYPE ASSIGNED

AC - ASPHALTIC CONCRETE
PCC - PORTLAND CEMENT CONCRETE
DBST-DOUBLE BITUMINOUS SUFFACE TREATMENT
-- - DIRECTION OF SURVEY
RPCC-REINFORCED PORTLAND CEMENT CONCRETE

NOTES: I. FEATURE DESIGNATION DENOTES TYPE OF FEATURE, NUMBER OF FEATURE FOR GIVEN TYPE, AND TYPE TRAFFIC AREA. 2. TRAFFIC AREA DESIGNATIONS ARE BASED ON HEAVY-LOAD CRITERIA.

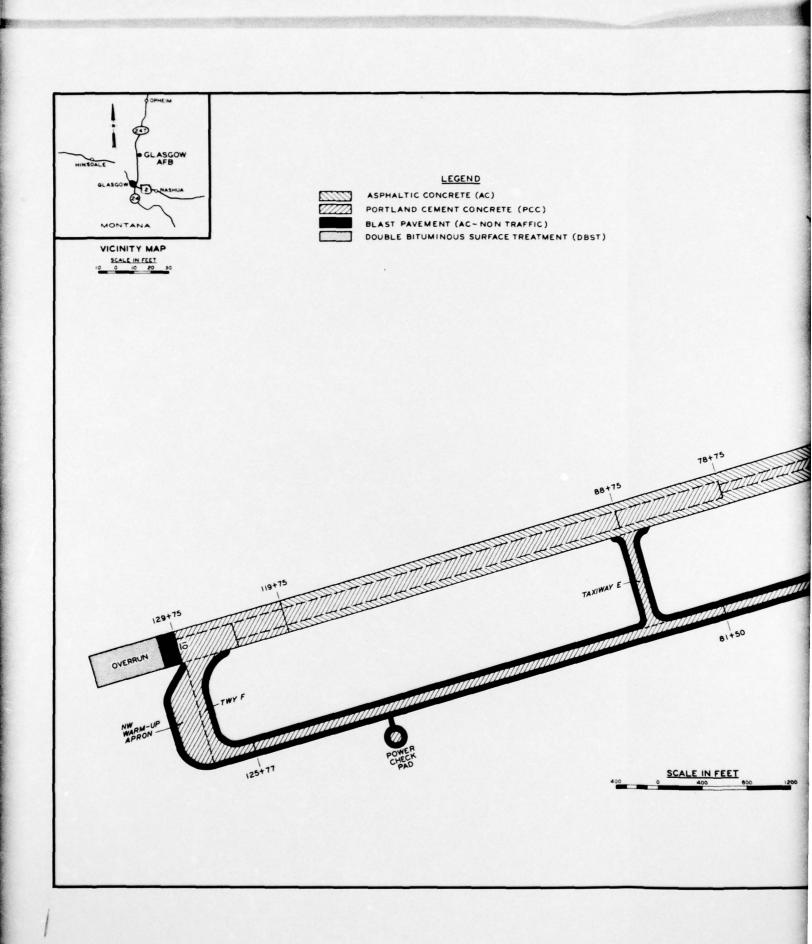


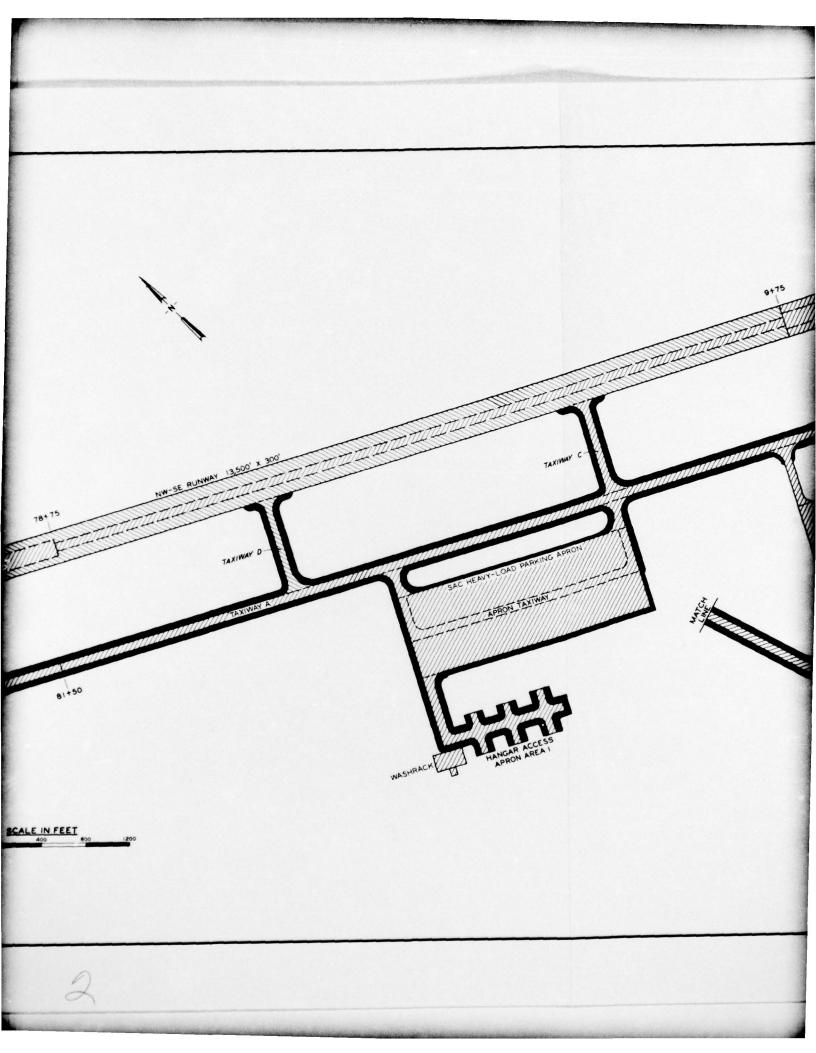


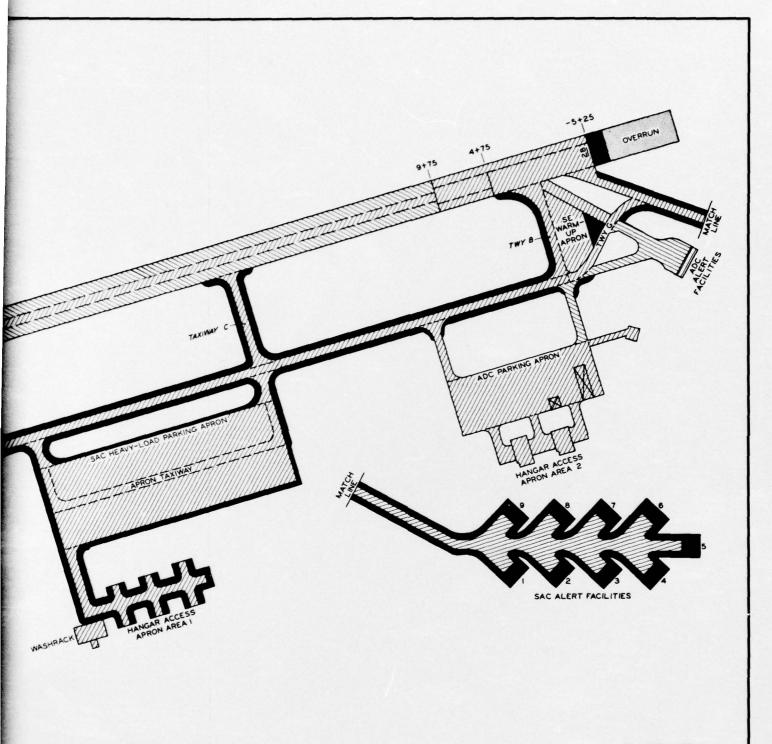


GLASGOW AFB

AIRFIELD LAYOUT







GLASGOW AFB

PAVEMENT PLAN